

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name:**  
**UPR Pole Repair™ No Flow**  
**UPR-NF (Part A) 10841A**

**Product ID numbers:** UPR-NFKIT4, UPR-NFKIT12, UPR-NF6B10;  
UPR-NFXXX (where XXX is the package code.)

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Sealant, wood fill and pole repair, two-part material

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer:

**American Polywater Corporation**  
11222 - 60th Street North  
Stillwater, MN 55082 USA  
Tel: 1-651-430-2270  
Email: sds@polywater.com

**Powerhouse Electric Limited**  
289 Rosebank Road,  
Avondale, Auckland 1026, NZ  
09 373 4487  
Email: sds@polywater.com

### 1.4 Emergency telephone numbers

INFOTRAC: +1-352-323-3500  
NPC (National Poison Centre) 0800 764 766 and 0800 Poison

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).**

Acute Toxicity, Cat 4; H332  
Skin Irritation, Cat 2; H315  
Eye Irritation, Cat 2A; H319  
Respiratory Sensitization, Cat 1; H334  
Skin Sensitization, Cat 1; H317  
Carcinogenicity, Cat 2; H351  
Target Organ Toxicity (single exposure), Cat 3; H335  
Target Organ Toxicity (repeated exposure), Cat 2; H373

### 2.2 Label elements

**Contains:** Polymeric diphenylmethane diisocyanate; 4,4'-Diphenylmethane diisocyanate (MDI)



#### Pictograms:

**Signal word:** Danger

#### Hazard Statements:

H332 Harmful if inhaled.  
H315 Causes skin irritation.

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated inhalative exposure.

**Precautionary Statements:**

- P260 Do not breathe fumes.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, protective clothing and eye protection.
- P284 In case of inadequate ventilation wear respiratory protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P304 + P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical attention.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
- P337 + P313 If eye irritation persists: Get medical attention.
- P342 + P311 If experiencing respiratory symptoms: Call a poison center or doctor.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container in accordance with local and national regulations.

**Notes:** 4,4'-methylenediphenyl diisocyanate (MDI) has not been designated as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may be attributed to non-specific particle effect (IARC monograph 71). We have not classified substance as a carcinogen, but recommend that users avoid inhalation of vapor above exposure limits.

**2.3 Other hazards:** No information available.

**3. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>
Polymeric diphenylmethane diisocyanate	9016-87-9		30 - 60
4,4'-Diphenylmethane diisocyanate (MDI)	101-68-8	202-966-0	30 - 60
Phosphoric Acid, Triethyl Ester	78-40-0	201-114-5	1 - 5

**4. First Aid Measures**

**4.1 Description of first aid measures**

- Eye Contact:** Immediately flush eyes with large quantity of water for 15 minutes. Seek medical attention.
- Skin Contact:** Remove contaminated clothing; flush skin thoroughly with soap and water. If irritation occurs, seek medical attention.
- Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.
- Ingestion (Swallowing):** If swallowed, rinse mouth and drink plenty of water. Do not induce vomiting. If patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

May cause allergic skin and respiratory reaction. Refer to Section 11 for more information.

**4.3 Indication of immediate medical attention and special treatment needed.**

No information available.

**5. Firefighting Measures**

**5.1 Extinguishing media:**

Water Fog, Carbon Dioxide, Dry Chemical or Foam.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous decomposition and by-products:**

Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

**5.3 Advice for firefighters**

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear full protective clothing, including appropriate respiratory protection.

**6.2 Environmental precautions:**

Prevent from entering waterways.

**6.3 Methods materials for containment and cleaning up:**

Spills expected to be small quantities. Collect excess material with absorbents or wipe with dry towels. Wash with a dilute ammonia solution.

**6.4 Reference to other sections:**

Refer to Sections 4, 5, 8, and 13 for more information.

**7. Handling and Storage**

**7.1 Precautions for safe handling**

Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

**7.2 Conditions for safe storage, including incompatibilities**

Keep containers cool, dry, and away from sources of ignition. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**7.3 Specific end uses**

See technical data sheet on this product for further information.

**8. Exposure Controls / Personal Protection**

**8.1 Control parameters**

**Exposure limits and recommendations:**

Country/Source	Component	Long-term exposure limit 8 hr OEL, TWA	Short-term (ceiling) exposure limit – 15 min
New Zealand -- WorkSafe	Isocyanates, all (as =NCO)	.02 mg/m <sup>3</sup>	.07 mg/m <sup>3</sup>
USA – ACGIH TWA	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm
USA – OSHA OEL	4,4'-Diphenylmethane diisocyanate (MDI)	--	0.02 ppm
USA – NIOSH REL	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm
ACGIH, OSHA and NIOSH have not established any OELs for Polymeric diphenylmethane diisocyanate (pMDI)			

**8.2 Exposure controls**

**Respiratory protection:**

Use with adequate ventilation to keep vapor concentration below acceptable limits. Observe OSHA standard 29 CFR 1910-94, 1910.107, 1910.108. Product dispensed through a static mixer and used as directed emits less than 0.001 ppm MDI vapor as tested by OSHA 47. Ventilation is not required for standard use. If product is use in a way that ventilation is not adequate, use approved chemical/mechanical filters designed to remove a combination of particulate and organic vapors in open and restricted areas. Use approved airline type respirators or hoods in confined areas. Observe OSHA standard 29 CFR 1910.134.

**Protective gloves:**

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

**Eye protection:**

Safety glasses recommended.

**Other protective equipment:**

Wear suitable protective clothing. Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.



**9. Physical and Chemical**

**9.1 Information of basic physical and chemical properties**

<b>Appearance:</b>	Brown liquid
<b>Odor threshold:</b>	Faint, aromatic odor
<b>pH:</b>	Does not apply
<b>Freezing point:</b>	3°C
<b>Boiling point:</b>	200°C
<b>Flash point:</b>	428°F / 220°C (open cup)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Does not apply
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	.00016 mm Hg @ 20°C
<b>Vapor density (Air = 1):</b>	1.22 g/cm <sup>3</sup>
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	1.22 @ 25°C
<b>Solubility in water:</b>	Reacts
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	> 250°C (1112°F)
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	200 mPas @ 25°C / 77°F

**9.2 Other Information**

<b>Volatiles (Weight %):</b>	0%
<b>VOC Content:</b>	0 g/l

**10. Stability and Reactivity**

**10.1 Reactivity:**

Reacts with water, reacts with substances which contain active hydrogen.

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

Hazardous reactions will not occur under normal transport or storage conditions.

**10.4 Conditions to avoid:**

Avoid freezing, high temperatures, flame, high humidity and water contamination.

**10.5 Incompatible materials :**

Water, alcohols, amines, acids, alkalis, metal compounds.

**10.6 Hazardous decomposition products:**

Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

**11. Toxicological Information**

**11.1 Information on toxicological effects:**

**Acute toxicity**

**Eye contact:**

Direct eye contact with material or vapors may cause eye irritation.

**Skin contact:**

Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Allergic skin reaction symptoms include redness, swelling, blistering and itching.

**Irritation and Sensitization Potential:**

Product may be irritating to skin and eyes.

**Inhalation (Breathing):**

Material has low vapor pressure and inhalation hazard is expected to be minimal. Vapor exposure may cause irritation of the nose and throat. Symptoms may include burning sensation, coughing and shortness of breath, or other signs of respiratory distress. May cause allergic respiratory reaction below exposure guideline in susceptible individuals.

**Ingestion:**

Ingestion may cause irritation of the gastrointestinal tract.

**Toxicity to Animals:**

4,4'-Diphenylmethane diisocyanate (MDI):	LD <sub>50</sub> (oral rat) >2,000 mg/kg
	LD <sub>50</sub> (dermal rabbit) >9,400 mg/kg
	LC <sub>10</sub> (inhl rat) 2.24 mg/m <sup>3</sup> , 1 hour, aerosol form

**Aspiration Hazard:**

No aspiration hazard expected.

**Chronic Exposure:**

**Reproductive Toxicity:** Not available.

**Mutagenicity:** Not available.

**Teratogenicity:** Not available.

**Specific Target Organ Toxicity (STOT)** Contains material which causes damage to the upper respiratory tract.

**Toxicologically Synergistic Products:** Not available.

**Carcinogenic Status:** This substance contains components identified as IARC Category 3, not classifiable.  
4,4'-methylenediphenyl diisocyanate (MDI) has not been designated as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may be attributed to non-specific particle effect (IARC monograph 71).

**Respiratory/Skin Sensitization**

May cause sensitization by inhalation and skin contact..

**12. Ecological Information**

**12.1 Toxicity:**

**Aquatic Toxicity:**

- 4,4'-Diphenylmethane diisocyanate (MDI): LC<sub>50</sub> (96 hr): > 1,000 mg/l Brachydanio rerio (fish)  
OECD Guideline 203 static
- 4,4'-Diphenylmethane diisocyanate (MDI): EC<sub>50</sub> (24 hr): > 1,000 mg/l Daphnia magna (invertebrate)  
OECD Guideline 202, part 1 static
- 4,4'-Diphenylmethane diisocyanate (MDI): EC<sub>50</sub> (72 hr): 1,640 mg/l Green algae (aquatic plants)  
OECD Guideline 201 static

**12.2 Persistence and degradability:**

Elimination information:  
<10% BOD of the ThOD (28d)  
(OECD Guideline 302 C, aerobic, activated sludge)  
Under test conditions, poorly biodegradable.

**12.3 Bioaccumulation potential:**

Accumulation in organisms is not to be expected.

**12.4 Mobility in soil:**

Adsorption to solid soil phase is not expected

**12.5 Results of PBT and vPvB Assessment:**

This product is not, nor does it contain a substance that is a PBT or vPvB.

**12.6 Other adverse effects:**

None known.

**13. Disposal Considerations**

Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

- UN Number:** Not Listed
- UN Proper shipping name:** Not Applicable
- Transport hazard class(es):** Not Applicable
- Packing group:** Not Applicable
- Environmental hazards:** None known
- Special precautions:** None known
- TDG:** Not Regulated
- ICAO/IATA-DGR:** Not Regulated
- IMDG:** Not Regulated
- ADR/RID:** Not Regulated

**15. Regulatory Information**

**15.1.1. NZ-Regulations**

All chemical substances in this product are listed in the New Zealand Inventory of Chemicals (NZIoC) or are exempt

This substance is to be managed using the conditions specified in an applicable Group Standard

**HSR Number**

HSR002646 Polymers (Toxic, 6.7) Group Standard 2006

**15.1.2. EU-regulations**

- Contains REACH substances with Annex XVII restrictions:
  - 56 REACH: Persons already sensitized to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Pregnant women should absolutely avoid inhalation and skin contact.
- Contains no substance on the REACH candidate list
- Contains no REACH Annex XIV substances

### 15.1.3. Australian-regulations

All components are listed on the AICS.  
Product is classified as hazardous according to criteria of NOHSC Australia.

### 15.1.4. International-regulations

All chemical substances in this product are listed as “Active” in the US EPA (Environmental Protection Agency) “TSCA Inventory Notification (Active-Inactive) Requirements Rule” (“the Final Rule”). as of Feb. 2019 or are otherwise exempt.

### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

## 16. Other Information

### Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration  
CLP = Classification, Labeling and Packaging Regulation  
STOT = Specific Target Organ Toxicity  
LD<sub>50</sub> = Median Lethal Dose  
DNEL = Derived No Effect Level  
ACGIH = American Conference of Governmental Industrial Hygienists  
TSCA = Toxic Substances Control Act (USA)  
DSL = Domestic Substances List (Canada)  
AICS = Australian Inventory of Chemical Substances

**Revision Date:** March 14, 2022  
**Revision Number:** 8 NZ  
**Supersedes:** June 12, 2020  
**Other:**  
**Indication of Changes:** Section 8; added PPE pictograms.

Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name:**  
**UPR Pole Repair™ No Flow**  
**UPR-NF (Part B)**

**Product ID numbers:** UPR-NFKIT4, UPR-NFKIT12, UPR-NF6B10;  
UPR-NFXXX (where XXX is the package code.)

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Sealant, wood fill and pole repair, two-part material

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer:

**American Polywater Corporation**  
11222 - 60th Street North  
Stillwater, MN 55082 USA  
Tel: 1-651-430-2270  
Email: sds@polywater.com

**Powerhouse Electric Limited**  
289 Rosebank Road,  
Avondale, Auckland 1026, NZ  
09 373 4487  
Email: sds@polywater.com

### 1.4 Emergency telephone numbers

INFOTRAC: +1-352-323-3500

NPC (National Poison Centre) 0800 764 766 and 0800 Poison

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).**

Skin Irritation, Cat 2; H315

Skin Sens, Cat 1, H317

Eye Irritation, Cat 2A; H319

Carc, Cat 2, H351

Target Organ Toxicity (repeated exposure), Cat 2; H373

### 2.2 Label elements

**Contains:** Diethyltoluenediamine (DETDA), 4,4'-methylenebis(2-ethylaniline), Modified Isophoronediamine



#### Pictograms:

**Signal word:** Warning

#### Hazard Statements:

- |      |   |
|------|---|
| H315 | Causes skin irritation.   |
| H317 | May cause an allergic skin reaction   |
| H319 | Causes serious eye irritation.  |
| H351 | Suspected of causing cancer   |
| H373 | May cause damage to organs through prolonged or repeated inhalative exposure. |



**Precautionary Statements:**

- P264 Wash thoroughly after handling.
- P280 Wear protective gloves, protective clothing and eye protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
- P362 + P364 Take off contaminated clothing and wash before reuse.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical attention.
- P308 + P313 If exposed or concerned: Get medical attention.
- P501 Dispose of contents in accordance with local regulations.

**2.3 Other hazards:** No information available.

**3. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>
Polyether polyol mixture	Proprietary	--	60 - 100
Diethyltoluenediamine (DETDA)	68479-98-1	270-877-4	1 - 5
4,4'-methylenebis(2-ethyl-aniline)	19900-65-3	243-420-1	1 - 5
Modifiend Isophoronediamine	90530-15-7	292-053-3	1 - 5
Tertiary amine compounds	Proprietary	--	0.1 - 1

**4. First Aid Measures**

**4.1 Description of first aid measures**

- Eye Contact:** Immediately flush eyes with large quantity of water for 15 minutes. Seek medical attention.
- Skin Contact:** Remove contaminated clothing; flush skin thoroughly with soap and water. If irritation occurs, seek medical attention.
- Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.
- Ingestion (Swallowing):** If swallowed, get medical attention. Do not induce vomiting. If patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**4.2 Most important symptoms and effects, both acute and delayed**

No information available.

**4.3 Indication of immediate medical attention and special treatment needed.**

No information available.

**5. Firefighting Measures**

**5.1 Extinguishing media:**

Water Fog, Carbon Dioxide, Dry Chemical or Foam.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous decomposition and by-products:**

Carbon monoxide, carbon dioxide, nitrogen oxides, nitric acid, ammonia, aldehydes, nitrosamine, and silicon dioxide.

**5.3 Advice for firefighters**

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear full protective clothing, including appropriate respiratory protection.

**6.2 Environmental precautions:**

Prevent from entering waterways.

**6.3 Methods materials for containment and cleaning up:**

Spills expected to be small quantities. Collect excess material with absorbents or wipe with dry towels. Wash with a dilute ammonia solution.

**6.4 Reference to other sections:**

Refer to Sections 4, 5, 8, and 13 for more information.

**7. Handling and Storage**

**7.1 Precautions for safe handling**

Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

**7.2 Conditions for safe storage, including incompatibilities**

Keep containers dry and away from excessive heat. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**7.3 Specific end uses**

See technical data sheet on this product for further information.

**8. Exposure Controls / Personal Protection**

**8.1 Control parameters**

**Exposure limits and recommendations:**

Contains no components with established Occupational Exposure Limit (OEL) values.

**8.2 Exposure controls**

**Respiratory protection:**

Use with adequate ventilation to keep vapor concentration below acceptable limits.

**Protective gloves:**

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

**Eye protection:**

Safety glasses recommended.

**Other protective equipment:**

Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.



**9. Physical and Chemical**

**9.1 Information of basic physical and chemical properties**

<b>Appearance:</b>	Light brown liquid
<b>Odor threshold:</b>	Mild amine odor
<b>pH:</b>	Not available
<b>Freezing point:</b>	Not available
<b>Boiling point:</b>	Not available

<b>Flash point:</b>	>360°F / >182°C (PMCC)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Does not apply
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density (Air = 1):</b>	>1
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	Not available
<b>Solubility in water:</b>	Slightly soluble
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

#### 9.2 Other Information

<b>Volatiles (Weight %):</b>	0%
<b>VOC Content:</b>	0 g/l

### 10. Stability and Reactivity

#### 10.1 Reactivity:

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability:

Stable

#### 10.3 Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions.

#### 10.4 Conditions to avoid:

Avoid freezing, high temperatures, and moisture.

#### 10.5 Incompatible materials :

Isocyanates, strong oxidizing agents and strong bases.

#### 10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide, and nitrous oxides.

### 11. Toxicological Information

#### 11.1 Information on toxicological effects:

##### Acute toxicity

##### Eye contact:

Direct eye contact with material or vapors may cause eye irritation.

##### Skin contact:

May cause skin irritation

##### Irritation and Sensitization Potential:

May cause skin sensitization.

##### Inhalation (Breathing):

May cause respiratory irritation.

##### Ingestion:

Harmful if swallowed.

##### Toxicity to Animals:

Diethyltoluenediamine (DETD): LD<sub>50</sub> (oral rat) 738 mg/kg  
LD<sub>50</sub> (dermal rabbit) >2,000 mg/kg

**Aspiration Hazard:**

No aspiration hazard expected.

**Chronic Exposure:**

**Reproductive Toxicity:** Not available.

**Mutagenicity:** Not available.

**Teratogenicity:** Not available.

**Specific Target Organ Toxicity (STOT)** Not available.

**Toxicologically Synergistic Products:** Not available.

**Carcinogenic Status:** This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components. Contains 4,4'-methylenebis(2-ethylaniline) CAS# 19900-65-3; REACH Annex VI (EU) suspected carcinogen.

**12. Ecological Information**

<b>12.1 Aquatic Toxicity:</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>12.2 Persistence and degradability:</b>	No information available.
<b>12.3 Bioaccumulation potential:</b>	No information available.
<b>12.4 Mobility in soil:</b>	No information available.
<b>12.5 Results of PBT and vPvB Assessment:</b>	This product is not, nor does it contain a substance that is a PBT or vPvB.
<b>12.6 Other adverse effects:</b>	None known.

**13. Disposal Considerations**

Do not release to the environment. Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

<b>UN Number:</b>	Not Listed
<b>UN Proper shipping name:</b>	Not Applicable
<b>Transport hazard class(es):</b>	Not Applicable
<b>Packing group:</b>	Not Applicable
<b>Environmental hazards:</b>	None known
<b>Special precautions:</b>	None known
<b>TDG:</b>	Not Regulated
<b>ICAO/IATA-DGR:</b>	Not Regulated
<b>IMDG:</b>	Not Regulated
<b>ADR/RID:</b>	Not Regulated

**15. Regulatory Information**

**15.1.1. NZ-Regulations**

All chemical substances in this product are listed in the New Zealand Inventory of Chemicals (NZIoC) or are exempt

This substance is to be managed using the conditions specified in an applicable Group Standard

**HSR Number**

HSR002646 Polymers (Toxic, 6.7) Group Standard 2006

### 15.1.2. EU-regulations

- Contains REACH substances with Annex XVII restrictions:  
56 REACH: Persons already sensitized to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Pregnant women should absolutely avoid inhalation and skin contact.
- Contains no substance on the REACH candidate list
- Contains no REACH Annex XIV substances

### 15.1.3. Australian-regulations

All components are listed on the AICS.

Product is classified as hazardous according to criteria of NOHSC Australia.

### 15.1.4. International-regulations

All chemical substances in this product are listed as “Active” in the US EPA (Environmental Protection Agency) “TSCA Inventory Notification (Active-Inactive) Requirements Rule” (“the Final Rule”). as of Feb. 2019 or are otherwise exempt.

### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

## 16. Other Information

### Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration

CLP = Classification, Labeling and Packaging Regulation

STOT = Specific Target Organ Toxicity

LD<sub>50</sub> = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

**Revision Date:** March 14, 2022

**Revision Number:** 7 NA

**Supersedes:** June 19, 2020

**Other:** Updated Version with New Zealand (NZ) Information

**Indication of Changes:** Section 8; added PPE pictograms.

Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

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